Missouri Botanical Garden
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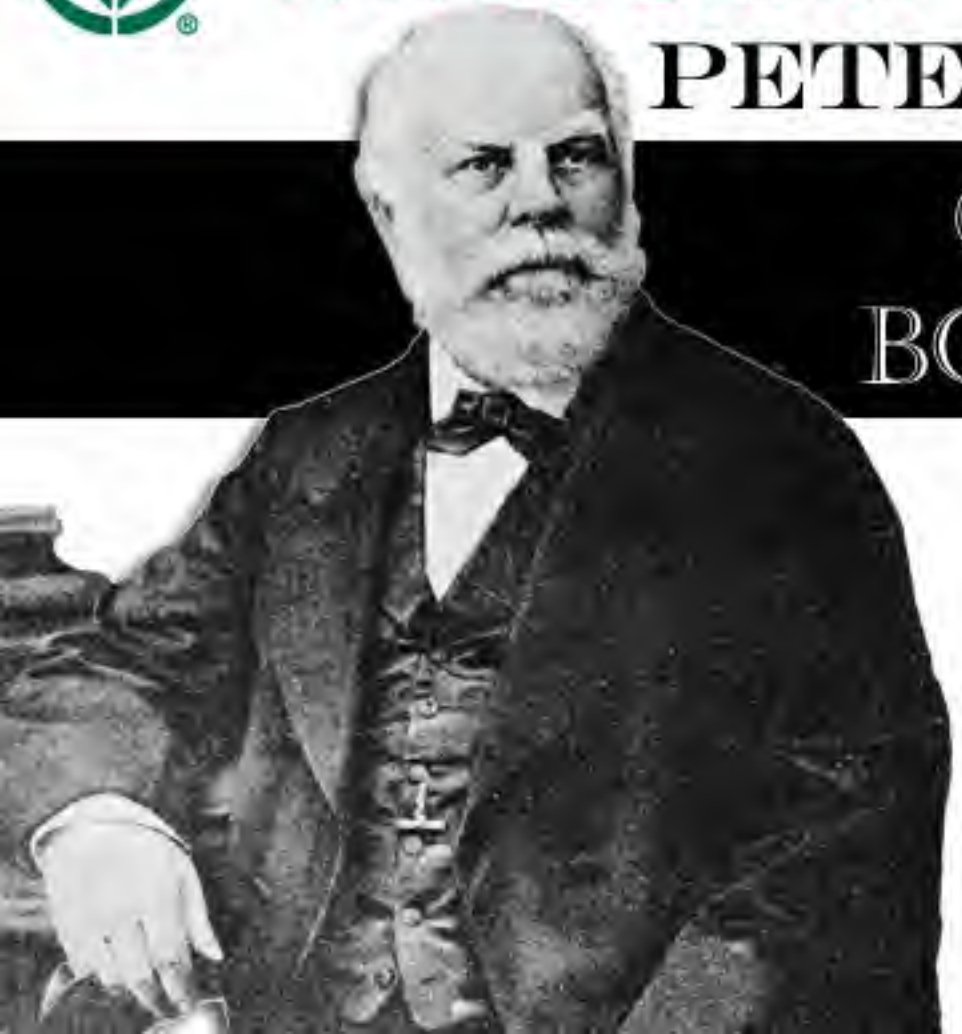
George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Several other species were received under the names of A. alba. A. nigra and A rubra the latter seems a distinct species — what are the others?
(early Jeffreys 1852) James McNab & Jard Chron. April 6 1872

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

12463

Rec'd Aug 9th
Ans Same Day

Oconto Aug 4th 1863

Dr Engelmann,

Dear Sir,

I made a flying visit to Littlte Sturgeon Bay on the opposite side of Green Bay yesterday and while there found a tree of Thies which proves to be A. alba at least agrees perfectly with the description of that species you gave in the memoranda you sent me by Dr Bigelow last winter — and which I accidentally came across to day having supposed it last — viz "cones elongated, cylindric, pendulous, from the end of a leafy branch. the scales thin throughout with a smooth entire edge".

I was unable to find any yong

cones as I only saw one or two
trees in a rapid walk through
a piece of woods I however
brought away branches from
the lower part and from
the summit of the tree
about 6 in in diameter & 25
to 30 ft high. also old cones
which are readily detached
from the branches so that
I was unable to get any
adhering to them.

I enclose in this letter a cone
and branchlets from various
parts of the tree.

the cones however are not
always terminal and I enclose
a branch which shows the
places where several lateral cones
have fallen off.

The summit of the tree is
a branch of this years
growth of over a foot and length

with numerous buds marking the
places of next years branches
(and cones?)
many of the branches near the
top are terminated in the
same manner by a branchlet
nearly a foot in length
while those of the lower
branches are but one or two
inches and in many cases the
terminal bud has died so
that the growth of these
branches is stopped.
No cones were seen except
near the summit of the tree

occur rarely in the vicinity of Ocanto and I shall endeavor to find some before leaving.

I had hoped before this to send you more notes on Pinus Bandsiana but have not had time as yet. I have seen a few miles up the river much larger trees that those previously noticed some 50 to 60 feet high and from 12 to 18 in. in diameter.

I shall probably be here for 10 or 15 days yet

Yours

E. P. Austin.

12464

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Bonnsrick May 26/63

My Dear Porter

I send you two Specimens of Spruce. The one with large Cone, or common A. nigra. the other—? The foliage is not only dense as you like to see but its odor is so strong that one smells that it is Hemlock as the "Black Spruce." It is rare. Please enlighten me. I put in a Cone branch of A. nigra growing in the same neighborhood.

You may send my plants & Wilkesman tree any time you please. I go there the first July. I do not intend to return here. The work in the College is too much. one is quite as much as I can manage properly. I hope next Summer more Time for Botany.

Most Truly Yours
P. A. Chadbourne

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Canadensis

Calgary

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Picea alba my herb. April 1863 ramuli glabri

New England 1862	fol 5–6‴	fr 12–14‴ —	fol robust acute inoure
H. Goettorf		fr. 24–34‴	
Quebec	fol 7–9‴	17–25‴	fol robust obtus curvat
H. Schonbrun		fr. 22–27‴	
H. Neapol.	„ mexicana" fol 5–7‴	fr 27‴	fol gracilia. acut. inc.
	„ alba" fol 4–5‴	fr 17‴	fol — — acut ane
	„ rubra" fol 4–6‴	fr. 22‴	„ — — — — — —

1

Dr Parry sends cones of this from St Croix River Minnesota.
C. P. Austin specimens from Oconto Wisconsin.

12466

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1785 "P. alba" Buckland River N. W. America arctic Seemann 1849

[Illus. Kew Sept 1869]

. looks like P. Engelmanni — cones 3–3½ oval, scales retuse, entire, bright brown cones persistent yet "in summer"

très commun — fl. 28 May 1858

"P. alba" Saskatchewan, Fort Carlton, Bourgeau 12 Octob 1857

may be alba or Engelmanni.

. P. alba Montagnes rocheuses, composent particulièrement les forêts que j'ai visité 17 Aug 1858 Bourgeau

cone very white, scales entire, retuse rather more flexible than in virgo, less so than alba. — Still it may be the true P. alba, which in the northern Rocky Mountains takes the place of Engelmanni

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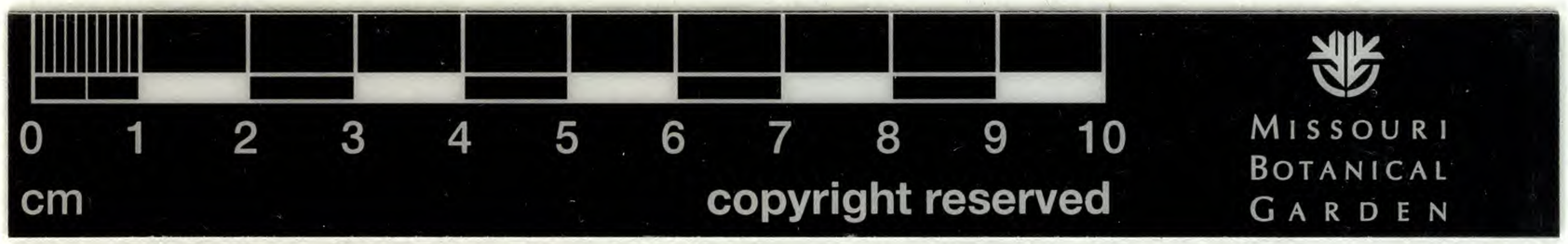

Bourgeau: "Abies alba" is the nearest to the Snow in the Rocky Mts [49°] Nearly on the ground, 6500 - 800 feet alt.

This is probably A. Engelmanni.

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– for further a
nce Karl.

(Yon

Yo. Engelmann
ene Prof. Gra
Cambridge.
Mass.

12468

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Pinus alba

Eng. Aug 11 1869

Cons sessile below the terminal bud of a last years branchlet. this branchlet is either small and never grows further or the axis continues to grow
secondary
or lateral branchlets form close to the top one or both, lateral and terminal ones grow out

12469.

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Picea alba? Engelmanni? on the eastern side of the range which trends SE from Mt Elias, Alaska — slim, "clipper-built" 140 feet high, extends to the head of the Yukan on Dease Lake and head of Mackenzie River the principal timber there — alt 4000'; lat 60° near A. Subalpina.

J. Muir

NE of Sitka, 200 miles inland from Stickine River.

12470

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Pinus alba, fl. fem. / June 1869 H. Mey. Arcadia
Cabanniss, Florida / correct! but certainly
not a native of Florida!

12471.

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Prof. R. A. Chadbourne writes from Brunswick, Maine June 15. 1863:

1, Abies alba: tree less rigid in its general aspect than A. nigra though the foliage is very dense.

2, bark smooth, even in trees 8–10 inches in diameter, quite as smooth as in the Firs [A. balsamea.]

3, It is a more rapid grower, some of the stumps showing an increase of 1 inch in diameter yearly in wood [Therefore annual rings 6 lines wide.!!]

4, wood lighter and less durable than that of A. nigra

5, its new shoots at the present writing 2–8 inches long while those of A nigra are not more than 1/2 or 1/3 of this.

6, Foliage comes now nearly pea green, those A. nigra purple.

7, last years cones drop as soon as touched, while the cones of A. nigra are detached with difficulty.

8. The trees are growing all mingled together.

9. In Spring the odor of A alba is very strong, hence the name of Skunk Spruce.

10 Both species grow near the sea, and in no other locality hereabouts

The difference of the two species is as marked in trees a foot high as in the large ones.

E. P. Austin sends from Oconto, Wisconsin on Green Bay Picea alba collected Aug 1st 1863 near Little Sturgeon Bay. Small trees 25–30 feet height 1/2 foot diameter, cones only near summit of tree; stem and larger branches terminality in erect stiff branches, with straight shorter, broader leaves and sessile lateral cones; horizontal branches with longer curved square leaves, pedicelled cones.

Even without cones I now distinguish

P. alba by the smooth light yellowish brown branchlets, purplish white in the first season — (usually terminal cones)

P. nigra by the pubescent, dark

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P. S. Mai 1863

Lieber Freund! Herzlich erfreut mich Ihr Lebenszeichen. Ich finde mich so wenig, dass Pinus alba St Petersb. Fasciculi Viertes, höchstens 1½" lange, verjüngte Nadeln meist sechsig zu 2-3", dünnen peripherie equaliter tenuis, selten fünf und so mehrmal an den Kurzsprossen, die Nadeln haben ich hier, und merk erkenne, dass Sie Recht haben, und meine Bestimmung unrichtig ist. Sie werden gütig absolvieren, aber das geschieht so wenig dem Irrthum. Mag sein, wenn Sie sprechen, aber ich in Ihnen werden nicht Irrthum, als wenn Sie über die Pinien von N. wissen sagen. Allein

Gray Herbarium Harvard University

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MISSOURI BOTANICAL GARDEN 12473
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einen anderen kennen, als diesen klein-
städtischen sehen wir nicht: die Farben.
Wenn ich abends spaziere, so kommen mir
in den Sinn: solchen oder ähnlich
Farben könnten gewesen sein? die Blüh-
enden sind jetzt etwa 6‴ groß: 18‴ lang
Stiel. Wie die Fruchtähre mit ihren Früch-
ten contrastiren, lässt sich nicht schwer zeichnen
den Früchtchen hier. Auch die Blüthen sind
klein. In freundlichen Briefe Ihr Schreiben.
Meinen freundlichen Empfehlungen sind Gottlob wir Alle
so Gesund, geblieben.

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his unrivalled stocks of MANGEL, selected and grown by himself. Samples and prices on application.
Bardney Manor, Lincoln.

Sharpe's Seeds.

CHARLES SHARPE AND CO.'S WHOLESALE LIST
Is now ready, and will be forwarded on application.
Sleaford.

CEDRUS DEODARA. — "The Indian Cedar."—Beautiful specimen trees, frequently transplanted and well-rooted, offered at the undermentioned low prices, to effect a clearance :—

5 to 6 feet, 48*s.* per dozen	7 to 8 feet, 72*s.* per dozen
6 to 7 feet, 60*s.* per dozen	8 to 10 feet, 84*s.* per dozen

ABIES DOUGLASII.—One of the most noble trees grown, well-rooted specimens :—
6 to 7 feet, 3*s.* 6*d.* each ; 36*s.* per dozen
7 to 8 feet, 4*s.* 0*d.* each ; 42*s.* per dozen
8 to 9 feet, 5*s.* 0*d.* each ; 60*s.* per dozen
The above-named trees are highly suitable for Avenues, Lawns, Shrubberies, or Woods, and the opportunity of purchasing on such terms rarely occurs.
RICHARD SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

EIGHTY THOUSAND CLEMATIS, in Pots, of all the finest double and single varieties (some of the flowers of which become 10 inches across, and are of every shade, from pure white to the darkest purple), for climbing and bedding, from 12*s.* to 24*s.* per dozen, strong plants.
Descriptive LIST on application.
RICHARD SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

CELERIES.—Troughton's Celebrated Lancashire Prizetaker, Red and White, the best in cultivation ; taken hundreds of prizes. Packets 1*s.* each, post-free.
4, Church Street, Preston.

HAMPTON COURT BLACK HAMBURGH VINES.—Extra strong Fruiting Canes of the above from 10*s.* 6*d.* ; also fine Planting Canes, from 3*s.* 6*d.* each.
T. JACKSON AND SON, Royal Kitchen Gardens, Hampton Court and The Nurseries, Kingston, Surrey.

Gladioli.

KELWAY AND SON offer all the sorts worth cultivating : 20 acres are devoted to the culture of this flower. Our bulbs this season are very fine, and we are enabled to supply to any extent. CATALOGUES, with instructions for growing, post-free. See report of our Culture in *Gardener's Magazine*, Oct. 7, 1882.
Langport, Somerset.

CHRYSANTHEMUMS.—Chrysanthemums.—Cuttings now ready of several hundred varieties, our selection, 1*s.* 6*d.* per dozen, 8*s.* per 100. The collection comprises all the new and old sorts worth growing, English or Continental. Japanese varieties, 2*s.* 6*d.* per dozen.
WM. CLIBRAN AND SON, Oldfield Nursery, Altrincham.

SPECIMEN IRISH YEWS. — A large Stock of the above, 10, 12, and 15 feet high, at very low prices. of
T. JACKSON AND SON, Nurseries, Kingston-on-Thames.

Hardy Herbaceous Plants—Old Fashioned Flowers.

EDWARD MORSE'S CATALOGUE of HARDY FLOWERS is now ready, and will be forwarded upon receipt of address.
E. M. will send a box containing 100 varieties, true to name, upon receipt of Post-office Order or cheque for £1.
The Nurseries, Epsom.

MAGNIFICENT LILIUM AURATUM.—Strongest picked bulbs, in the finest possible condition ; may be relied on to give satisfaction. Six, 5*s.* 6*d.* ; twelve, 10*s.* ; securely packed and carriage paid.
M. VEREY, 4, Oppidans Road, London, N.W.

Table Plants, &c.

C. F. BAUSE offers very healthy well-grown plants, for table or general decoration, of the following :—COCOS WEDDELLIANA, GEONOMA GRACILIS, EUTERPE EDULIS, ARECA LUTESCENS, ARECA BAUERI, LATANIA BORBONICA, CHAMÆROPS EXCELSA, ARALIA SIEBOLDI, A. ELEGANTISSIMA, A. VEITCHII, PANDANUS VEITCHII, DRACÆNAS, best sorts ; and CROTONS, well coloured. The Trade liberally supplied. Size and prices on application.
Morland Nursery, Portland Road, South Norwood, S.E.

LAPAGERIA ALBA, well-rooted plants, 10*s.* 6*d.*, 15*s.* and 21*s.* A few extra Specimens, size and price on application.
LAPAGERIA RUBRA, superb, 7*s.* 6*d.*, 10*s.* 6*d.* and 15*s.* A few extra-sized Specimens, size and prices on application.
W. HOWARD, Southgate, N.

Planting Season.

R. AND A. MORRISON, The Nurseries, Elgin, N.B. (Established 1822), invite the attention of Planters to their extensive Stocks of Seedling and Transplanted FOREST TREES, ORNAMENTAL TREES and SHRUBS. They have a very large and healthy Stock of Seedling and Transplanted LARCH and SCOTCH FIR, which they guarantee as true Native, being the produce of Seed collected by them in the North of Scotland.
CATALOGUES and Samples on application.

NATIVE SCOTCH FIR.—A large quantity of fine 2-yr. Seedlings to offer ; will be sold very cheap. Samples and price by post.
WM. WISEMAN, Nurseryman, Nairn, N.B.

FOR SALE, Two large Double White CAMELLIAS, 13 to 14 feet high, by 9 to 10 in diameter, planted out in Greenhouse. Apply to
JOHN LAING AND CO., Forest Hill, S.E.

ROSES, well rooted, many-shooted, truly named, of matured growth, and of the best kinds.
DWARFS, R. S. & Co.'s selection, 8*s.* per dozen, 60*s.* per 100.
STANDARDS, 21*s.* per dozen.
Descriptive LIST on application.
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OSIER BEDS, and will quote prices to the Trade, *according to quantity required.* Samples and prices of Osier "Sets" on application.

Special Offer.—To the Trade.—Special Offer.
AT GREATLY REDUCED PRICES.

WOOD AND INGRAM beg to offer the following :—
ROSES, Standard and Half-standard, a fine collection, 80*s.* per 100.
APPLES, Dwarf-trained, splendid trees, 18*s.* per dozen, 125*s.* per 100.
CHERRIES, Standard, Gov. Wood, Frogmore, Early Bigarreau, and other varieties (no Mayduke), 70*s.* per 100.
PEARS, Standard, all the leading varieties, 50*s.* per 100.
,, Pyramid, all the leading varieties, 9*s.* per dozen, 60*s.* per 100.
CHESTNUT, Spanish, 2 to 3 feet, 30*s.* per 1000.
HAZEL, transplanted, 3 to 4 feet, 30*s.* per 1000 ; 4 to 5 feet, 25*s.* per 1000.
ELM, Huntingdon, 8 to 10 feet, 50*s.* per 100.
LIME, Red-twigged, 8 to 10 feet, 55*s.* per 100.
MAPLE, Norway, 6 to 7 feet, 15*s.* per 100.
POPLAR, Black Italian, 6 to 8 feet, 60*s.* per 1000.
ELM, English narrow-leaved, 1-yr. and 2-yr. seedlings, 4*s.* and 5*s.* per 1000.
FIR, Scotch, 1 to 2 feet, 30*s.* per 1000.
PRIVET, Evergreen, 3 to 4 feet, 25*s.* per 1000.
LAUREL, Common, 1½ to 2½ feet, 17*s.* 6*d.* per 100, 150*s.* per 1000 ; 1 to 1½ foot, 12*s.* 6*d.* per 100, 100*s.* per 1000.
,, ,, 1-yr. cuttings, 2*s.* 6*d.* per 100, 20*s.* per 1000.
GORSE (Furze), 1-yr. and 2-yr. seedlings, 4*s.* per 1000.
The Nurseries, Huntingdon, and St. Neot's.

WILLIAM EVANS,
SEEDSMAN TO THE COUNCIL OF AGRICULTURE,
MONTREAL, CANADA.
Exporter of RED and ALSIKE CLOVER, TIMOTHY SEED, PEAS, BEANS, OATS, &c.
Samples and prices on application.
CABLE ADDRESS :—WEVANS, Montreal.

ONE HUNDRED THOUSAND HARDY HEATHS (Ericas), in 36 varieties, at 4*s.* per dozen, 25*s.* per 100, or £10 per 1000. A little extra will be charged for packing.
This is now a proper time to plant these fine plants, which are suitable for covering banks or mounds, or planting in exposed situations or for rockwork. Apply to
JAMES SMITH AND SONS, Darley Dale Nurseries, near Matlock.

GRAPES THIS YEAR.—Grape Vines of our usual excellent quality, perfectly ripened, 3*s.* 6*d.*, 5*s.*, 7*s.* 6*d.*, and 10*s.* 6*d.* each, the stronger for immediate fruiting.

FIGS.—Fruiting plants, in pots and tubs, 2*s.* 6*d.* each and upwards.
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Ferns a Speciality.
Having for many years devoted almost the whole of our attention to the cultivation of

FERNS and SELAGINELLAS, we now have the largest stock, in the greatest number of varieties, in the Trade, suitable for Stove and Greenhouse cultivation, for outdoor Ferneries and other purposes. Having over 1000 species and varieties, we give the opportunity of making a selection not elsewhere procurable. We offer for purchaser's selection over 120 species and varieties at 6*d.* each ; and over 100 other species and varieties at 1*s.* each. We also offer our selection of 100 for Stove and Greenhouse in 50 species and varieties, at 42*s.* and upwards ; 50 ditto ditto, 25*s.* ; 25 ditto, all different, 10*s.* 6*d.* ; 12 ditto, ditto, 4*s.* and 6*s.* ; 100 Hardy Exotic and British, in 50 species and varieties, at 50*s.* and upwards ; 50 ditto, ditto, 25*s.* and upwards ; 12 ditto, all different, 4*s.* 6*d.*
Our Illustrated CATALOGUE (price 6*d.*) contains much valuable information as well as "Hints on Fern Cultivation." Our special LISTS, issued at intervals during the year, giving extremely low quotations, may be had free on application.
W. AND J. BIRKENHEAD. Fern Nursery, Sale, Manchester.

FRISBY'S NEW BLANKNEY MARROW PEA.—This is one of the most prolific and distinct Peas extant, and one that will bear to stand pulling three weeks longer than any other second early variety ; the flavour is also superior to any. Height 4 feet. The subscriber having purchased the stock from Mr. Charles Frisby, can supply the same at 1*s.* 6*d.* per pint, 2*s.* 6*d.* per quart. Trade price on application to
JOHN ETHERINGTON DIXON, Seedsman, &c., 21 and 23, Lord Street, Gainsborough.

To the Trade.
SEED POTATOS—SEED POTATOS.

JOHN PERKINS AND SON offer the following :—
SCHOOLMASTER, 8*s.* per cwt., £7 per ton.
BURBANK'S SEEDLING, 8*s.* per cwt., £6 per ton.
COVENT GARDEN PERFECTION, 10*s.* per cwt.
Good Selected Stocks.
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Mangel.

JOHN SHARPE can offer to the Trade fine Long Red Mammoth MANGEL.
Bardney Manor, Lincoln.

THIRTY THOUSAND FINE STRONG PLANTS.
VIOLA CORNUTA, White Virgin, 5*s.* per 100, 45*s.* per 1000.
,, ,, Queen of Blues, 5*s.* per 100, 45*s.* per 1000.
PANSY, Blue King, 5*s.* per 100, 45*s.* per 1000.
,, Clevedon Yellow, 5*s.* per 100, 45*s.* per 1000.
,, ,, Purple, 5*s.* per 100, 45*s.* per 1000.
Package free. Extra plants for carriage.

SINGLE DAHLIA SEED.
Best named varieties, 6*d.* and 1*s.* per packet.
Collections of 12 best named varieties, separate, 5*s.* per collection.
Collection, mixed, from splendid seedlings, 1*s.* per packet.
Terms, Cash.
H. I. HARDY, F.R.H.S., Stour Valley Seed Grounds, Bures, Suffolk.

TELEGRAPH CUCUMBER SEED.—Now is the best time to plant. Send thirteen stamps for twelve Seeds, post-free, to
S. BIDE, Alma Nursery, Farnham.

---

offers a limited quantity of SEED of his superb strain, carefully hybridised, 2*s.* 6*d.* per packet. They are dwarf in habit, but very strong of growth—the flowers almost the substance of Tulips. Mr. CULVERWELL, in *Gardeners' Chronicle*, October 14, says :—"Mr. Sibbald's Begonias extremely good, in fact a principal feature of the show."—*Newcastle Journal.*

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VERBENAS.—Strong, healthy, well-rooted Cuttings, perfectly free from disease, of White, Purple, Scarlet, and Pink, 6*s.* per 100, 50*s.* per 1000 ; 100 strong rooted Cuttings, in twelve most splendid varieties, First-prize Flowers, for 8*s.* Terms cash.
EXECUTORS of the late H. BLANDFORD, The Dorset Nurseries, Blandford.

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THE LIVERPOOL HORTICULTURAL COMPANY (JOHN COWAN), Limited, The Vineyard and Nurseries, Garston, near Liverpool, have a splendid stock of VINES, grown from eyes this year, suitable for fruiting in pots and planting.
CATALOGUES free. The Trade supplied.
Also a fine stock of TEA ROSES.

GUARANTEED TRUE HIGHLAND NATIVE SCOTCH FIR SEED.—We are now Booking Orders for the above on very easy terms. Before purchasing send for prices to
WM. WISEMAN AND SON, Nurserymen, Elgin, N.B.

Special Offer.

CEDRUS DEODARA, fine plants :—
3 to 4 feet, 15*s.* per dozen, 110*s.* per 100.
4 to 5 feet, 18*s.* per dozen, 130*s.* per 100.
5 to 6 feet, 30*s.* per dozen, 200*s.* per 100.
THOMAS PERKINS AND SONS, 34, Drapery, Northampton.

FRANCIS BELL, NURSERYMAN, Easingwold, still can offer 1,000,000 of stout SCOTCH LARCH, 1½ to 2 feet, ditto 2 to 3 feet, and 3 to 4 feet.
The above are recently transplanted, with good leads and roots, at very low prices.
For particulars, apply as above.

TO THE TRADE.
ROSES on Manetti, Dwarf, 40*s.* per 100.
PEARS, Standards, 5 to 6 feet stems, 50*s.* per 100.
PINUS AUSTRIACA, 1½ to 2 feet, stout, extra transplanted, 10*s.* per 100, 80*s.* per 1000.
SCOTCH FIRS, twice transplanted, 1½ to 2 feet, 20*s.* per 1000.
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New Seedling Apple, The Queen.
FIRST-CLASS CERTIFICATE.

SALTMARSH AND SON are now supplying strong Maiden trees of this excellent variety, without which no collection, however small, will be complete, at 3*s.* 6*d.* each ; also a few strong 2-yr. Pyramids, on Crab and Paradise stocks, at 5*s.* to 7*s.* 6*d.* each. Price to the Trade on application.
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LAURELS.—Extra fine, bushy, and well-rooted stuff of rotundifolia and caucasica. Sizes and price on application to
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W. BALL AND CO., having a large stock of ROSES of the best named varieties, have the pleasure of offering fine Standards with good heads, straight stems, and well rooted, our selection, at 80*s.* per 100. Dwarfs of the leading varieties, strong trees, with splendid roots and heads, our selection, at 30*s.* per 100.
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FLOWERING SHRUBS, in great variety, such as Hydrangeas, Lilacs, Deutzias, Spiræas, Cytisus, Broom, Pyrus, Berberis, Double Cherry, Scarlet Hawthorns, Gueldres Rose, &c., 8*s.* per dozen, 50*s.* per 100
Descriptive LIST on application.
RICHARD SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

R. AND G. NEAL, NURSERYMEN, SEEDSMEN, and CONTRACTORS, Wandsworth Common, S.W., respectfully invite an inspection of the large and varied Stock of SHRUBS, FOREST, ORNAMENTAL, FRUIT and ROSE TREES grown at their Nurseries, which are now in fine condition for transplanting. All plants delivered free by own vans, within 6 miles of the Nursery. Builders supplied at Trade Prices. CATALOGUES on application.
The Nurseries are within 1 mile of the Clapham Junction and Wandsworth Common Stations.

CABBAGE, CAULIFLOWER, LETTUCE PLANTS, &c., Autumn sown, best varieties, in any quantities. LIST, and printed copy of many recent (1882) Testimonials, on application. Prices moderate, no charge for packages.—EDWARD LEIGH, Dunsfold, near Godalming.

SEAKALE, exceptionally fine Roots for Forcing, 2*s.* 6*d.* per dozen, 16*s.* per 100.
ASPARAGUS, strong, for Forcing, 12*s.* per 100 ; specially selected ditto, 16*s.* per 100.
RICHARD SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

R. AND A. MORRISON, The Nurseries, Elgin, N.B., offer :—
ABIES DOUGLASII, 1-yr., very fine, from Scotch seed.
SCOTCH FIR SEED, guaranteed True Native, our own collecting, and taken out of cone on our own kilns.
Samples and prices on application.

TWO HUNDRED THOUSAND HERBACEOUS and ALPINE PLANTS for Borders, Rockwork, &c. See Descriptive LIST, giving colour, height, time of flowering, &c., free by post for 1*d.* stamp.
Selection of 100 good showy varieties for 25*s.*
R. SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

GRAPE VINES.—All the leading kinds in finely ripened canes. Details on application to
FRAS. R. KINGHORN, Sheen Nurseries, Richmond, S.W.

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MISSOURI BOTANICAL GARDEN

HORNBEAMS.
LIMES.
ELMS.
CHESTNUT, HORSE.
,, SCARLET.
MOUNTAIN ASH.
COMMON ASH.
} Avenue Trees, 10 to 18 feet high.

Dwarf ROSES of finest kinds. Quotations will be given for 100 to 10,000.

STANDARD RHODODENDRONS. Ditto for dozen, 100 or 1000.

Special Cheap Offer.

ISAAC MATTHEWS AND SON are prepared to make a special offer to the Trade and Large Buyers. Samples and Price LIST on application :—

ASH, Mountain, 3 to 4 feet, 4 to 5 feet, 5 to 6 feet, 7 to 8 feet.
SYCAMORES, 2 to 3 feet.
CHESTNUTS, Horse, 9 to 10 feet, 10 to 12 feet.
THORN QUICK, strong, 3-yr., 4-yr., strong.
HOLLIES, Hodgins', maderensis, common Green.
LAURELS, Common, 12 to 18 inches, 1½ to 2 feet, fine.
YEWS, English, 18 to 24 inches, 2 feet, 2½ feet, 2½ to 3 feet.
RHODODENDRONS, Hybrid and Pontica, 3 to 4 inches, 4 to 6 inches, 6 to 9 inches, 9 to 12 inches, 12 to 15 inches, 15 to 18 inches, 1½ to 2 feet, 2 feet
,, CUNNINGHAM'S WHITE, 12 to 15 in., 15 to 18 in.
,, CAUCASICUM PICTUM, 12 to 15 inches, 15 to 18 inches.
IVY, Irish, 4-yr., strong.

The Nurseries, Milton, Stoke-on-Trent.

NEW ROSES of 1882, in pots.—Vendors' Selection, 30*s.* per dozen; Purchaser's, 36*s.* per dozen. The above comprise all the best English and French raised Hybrid Perpetuals, Perpetual Polyantha, Teas, Hybrid Teas, and Perpetual Moss.

ROSES of 1881, of above-named classes, 18*s.* to 24*s.* per dozen, in pots.

CHOICE ROSES. — Tea-scented, Hybrid Tea, Noisette, China, and Bourbon, 18*s.* to 24*s.* per dozen, strong plants in pots.

Descriptive LIST on application.

RICHARD SMITH AND CO., Nurserymen and Seed Merchants, Worcester.

Planting Season.

ANTHONY WATERER begs to invite attention to the following well grown and properly rooted NURSERY STOCK :—

AUCUBA JAPONICA, 1½, 2, and 3 feet. Thousands.
BOX, Green and Variegated, 2, 3, 4, 5, 6, and 7 feet. Thousands.
YEWS, English, 2, 3, 4, 5, 6, 8 to 10 feet. Thousands.
,, Golden, all heights up to 10 feet, and various shapes—Globes, Pyramids, &c. Thousands.
,, Irish, 5, 6, 7, to 10 feet.
JUNIPERS, Chinese, 5, 6, 7, to 10 feet.
PICEA PINSAPO, 5, 6, 7, to 10 feet.
,, NORDMANNIANA, 5, 6, 7, to 10 feet.
SPRUCE FIRS, well furnished, 3, 4, 5, 6, and 7 feet. Many thousands.
,, Black, 3, 4, and 5 feet.
SPRUCE, Hemlock, 4, 5, and 6 feet.
WEARE'S ARBOR-VITÆ, 4, 5, 6, and 7 feet.
HOLLIES, common Green, of all heights, up to 10 feet. Thousands.
,, Green, of sorts, such as LAURIFOLIA, MYRTIFOLIA, HODGINS', ALTACLARENSE, Yellow-berried, &c. An enormous Stock.
,, Variegated, from 3 to 5, 6, 7, 8, and 10 feet.
,, Waterer's, beautiful Specimens.
,, Golden Queen, up to 10 feet. Hundreds.
,, Silver Queen, up to 10 feet. Hundreds.
,, Perry's Weeping Standards and Pyramids.
,, Golden Weeping Standards and Pyramids.

The Stock of Hollies of various kinds comprises many thousands, and affords a choice quite unequalled.

CUPRESSUS LAWSONIANA ERECTA VIRIDIS, 3, 4, 5, 6, 7, and 8 feet. Thousands.
,, ,, GRACILIS, 3 and 5 feet.
,, ,, ARGENTEA, 3 and 5 feet.
,, ,, LUTEA, hundreds of fine plants, 3, 4, and 5 feet high.
RETINOSPORA PLUMOSA AUREA, 3, 4, and 5 feet.
,, OBTUSA AUREA, 4, 5, 6, and 7 feet.
,, PISIFERA AUREA, 3 and 4 feet.
THUIOPSIS DOLABRATA, 3, 4, 5, and 6 feet. Hundreds.
BEECH, Purple, 6 to 10 and 12 feet. Thousands.
LIMES, 10, 12, 14, 15, and 16 feet. Thousands.
PLANES, 10 to 20 feet.
MAPLE, Norway, 10 to 15 feet.
CHESTNUT, Horse, 10 to 16 feet.
,, Scarlet, 10 to 16 feet.
POPLAR, CANADENSIS NOVA, 10 to 16 feet. Thousands.
OAKS, Scarlet American, 10 to 12 feet.
ACER DASYCARPUM, 10 to 16 feet.
,, SCHWEDLERII, 10 to 12 feet.

And a vast and Miscellaneous Stock of Flowering DECIDUOUS SHRUBS and EVERGREENS, which intending purchasers are respectfully invited to come and see.

Knap Hill Nursery, Woking, Surrey.

THORN QUICK.—An immense stock of stout well-rooted Plants, from 2 to 5 feet, for new Fences and for Gapping. Special prices on application.

JAMES DICKSON & SONS, Newton Nurseries, Chester.

Pyrethrums, Pæonias, Iris germanica, &c.

ROBERT PARKER can supply the above-named in small or large quantities, also Asters, hardy herbaceous; Chrysanthemums, summer flowering; Delphiniums, Phloxes, Potentillas, Pentstemons, &c. Priced and Descriptive CATALOGUE may be had on application.

Exotic Nursery, Tooting, Surrey, S.W.

ROSES AND FRUIT TREES. — Fine Pyramid APPLES and PEARS of the hardiest and best cropping varieties only, 6*s.*, 9*s.*, 12*s.*, and 18*s.* per dozen. Dwarf trained trees, 24*s.* and 30*s.* per dozen, all with splendid fibrous roots.

PLUMS and CHERRIES, Pyramids, 12*s.*, 18*s.*, and 24*s.* per dozen. Dwarf trained trees, 30*s.* per dozen.

RED and BLACK CURRANTS, 2*s.* and 3*s.* per dozen.

RASPBERRIES, 1*s.* 6*d.* and 2*s.* per dozen, 8*s.* and 10*s.* per 100.

STRAWBERRIES, 2*s.* 6*d.* per 100. CATALOGUES free.

LA GRIFFERAIE ROSE CUTTINGS for Stocks, 1*s.* per 100, 7*s.* 6*d.* per 1000, cash.

DWARF H.P. ROSES, all the leading varieties, 7*s.* per doz. 50*s.* per 100. CATALOGUES free.

W. M. CLIBRAN AND SON, Oldfield Nursery, Altrincham.

SEEDS

OF SUPERIOR QUALITY,

CARRIAGE PREPAID.

DICKSON & ROBINSON,

SEED MERCHANTS,

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MANCHESTER.

Collections of Vegetable Seeds for One Year's Supply.

No. 1.	No. 2.	No. 3.	No. 4.
12s. 6d.	21s.	31s. 6d.	42s.

VEGETABLE SEEDS.

	Per packet—*s.*	*d.*
BEET—D. & R.'s Improved Dwarf-Top Black	1	0
BRUSSELS SPROUTS—Welch's Giant, compact large Sprouts	1	0
BROCCOLI — Backhouse's Winter White, *true*	1	0
BROCCOLI—Snow's Winter White, *true*	1	0
CAULIFLOWER—Dickson's Eclipse	1	6
CELERY — D. & R.'s Manchester Champion Red	1	0
CUCUMBER—D. & R.'s Improved Telegraph	1	0
MELON — Conqueror of Europe, green-fleshed, extra quality	1	0
TOMATO—President Garfield, fine large red variety	1	0
TOMATO — Stamfordian, a very heavy cropper	1	0

Collections of Choice Flower Seeds

No. 1.	No. 2.	No. 3.	No. 4.	No, 5.
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Also Collections of Choice Hardy Flower Seeds,
1*s.* 6*d.*, 2*s.* 6*d.*, 3*s.* 6*d.*, 5*s.*, and 7*s.* 6*d.* each.

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	Per packet—*s.*	*d.*
CALCEOLARIA—D. & R.'s Select Strain	2	6
CINERARIA—D. & R.'s Select Strain	2	6
CINERARIA — D. & R.'s French Large-flowering	2	6
CYCLAMEN PERSICUM GIGANTEUM	1	6
GLOXINIA HYBRIDA ERECTA GRANDIFLORA	1	0
PRIMULA SINENSIS FIMBRIATA ALBA, RUBRA, or Mixed—D. & R.'s Superb Strain each	2	6

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ADIRONDACK.	MAMMOTH PEARL.
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QUEEN of the VALLEY	SCHOOLMASTER.
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WHITE ELEPHANT.	VICAR of LALEHAM.

For descriptions and particulars of the above and other choice Seeds and Potatos see our

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DICKSON & ROBINSON,

MANCHESTER.

Carter & Co. The introduction of this very distinct and almost unknown Californian plant adds to our plants for the cool greenhouse or sheltered border what promises to be a useful and attractive spring flowering subject." JAMES CARTER AND CO. believe they hold the only stock of this beautiful Lily in this Country. Price 2*s.* 6*d.*, 3*s.* 6*d.* and 5*s.* each, post-free.

Trade Price on application.

The Queen's Seedsmen, 237 & 238, High Holborn, London, W.C.

Several Quarters of

EASTE'S KENTISH INVICTA EARLY PEAS, 10*s.* per bushel, 75*s.* per quarter. Apply to A. DUCKERING, Seed Grower and Merchant, East Barkwith, Wragby, Lincolnshire.

TEN THOUSAND SHOW PELARGONIUMS.—Leading Market Sorts, showing flower-buds. Price on application. Also a few hundreds of VOLONTE NATIONALE, ready for 48's, 40*s.* per 100.

TURNER BROS., Florists, Green Hill Nursery, Allerton, Liverpool.

SPECIAL CHEAP OFFER. [per 100.

LAURUSTINUS, 2 to 3 feet, 75*s.* per 100; 1½ to 2 feet, 50*s.*
EUONYMUS, Green, bushy, 9 to 15 inches, 10*s.* per 100.
LIGUSTRUM OVALIFOLIUM, 2 to 3 feet, 50*s.* per 1000; 3 to 4 feet, 60*s.* per 1000.
GOOSEBERRIES, very fine, 4-yr., extra, 100*s.* per 1000.
CURRANTS, Red and Black, 100*s.* per 1000.
JOHN TUCKER, Nurseryman, &c., High Street, Bridgwater.

Extra Strong Espalier Trained

APPLES and PEARS, reduced from 4*s.* to 3*s.* each. Strong NECTARINES aad PEACHES, at 3*s.* 6*d.* each. Pyramid APPLES and PEARS, bearing trees, three times transplanted, from 12*s.* to 24*s.* per dozen, or 180*s.* per 100. Standard APPLES, 12*s.* per dozen, or 70*s.* per 100; Maidens, Lord Suffield and other leading sorts, 6*s.* per dozen, or 40*s.* per 100.

Extra fine Standard ROSES, and Dwarfs of best sorts, cheap.

T. L. MAYOS, Highfield Nurseries, Hereford.

Two Sterling Novelties.

PETTIGREW'S CARDIFF CASTLE CUCUMBER, and CROSSLING'S GLAMORGAN TOMATO. Both exhibited in FIRST PRIZE Collection of Vegetables at the EDINBURGH INTERNATIONAL. Each, 1*s.* 6*d.* per packet, post-free.

The usual Trade terms.

RALPH CROSSLING, Penarth Nurseries, South Wales.

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MESSRS. RIVERS AND SON beg to offer fine Healthy Plants from their splendid collection, consisting of :—

STANDARDS, 2 to 4 feet.
DWARFS on MANETTI.
PLANTS IN POTS, for Forcing and Greenhouse Cultivation.

Descriptive CATALOGUE, post-free.

Special prices for large quantities.

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H. B. MAY has a very fine stock to offer.

Samples and price on application.

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Finest Quality Seeds.

A DESCRIPTIVE CATALOGUE of Flower and Vegetable Seeds is now ready, and may be had free of

J. PARKER, Seedsman, &c., Brixton Church, S.W.

To the Trade.

SPECIAL OFFER of VINES.

Strong Fruiting Canes, 4*s.* 6*d.* each.
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Black Alicante.	Lady Downe's.
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Golden Queen.	Muscat of Alexandria.

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ASPARAGUS.—A very fine lot of strong 2 and 3-yr. old Early Purple Argenteuil Asparagus Plants for Sale. Price on application.

BRINKWORTH AND SONS, Growers, Reading, Berks.

SPECIAL OFFER of PRICES.

LARCH, 3 to 4 feet, extra, 22*s.* 6*d.* per 1000.
FIR, Scotch, 1½ to 2 feet, 10*s.* 6*d.* per 1000, fine roots; 2 to 2½ and 3 feet, 14*s.* per 1000.
,, SPRUCE, 1 to 1½ foot, 9*s.* per 1000; 1½ to 2 feet, 11*s.* per 1000.
PINUS AUSTRIACA, 2-yr., fine, £9 per 100,000.
THORNS, ½ to 2 feet, 10*s.* 6*d.* per 1000; 2 to 2½ feet, 12*s.* per 1000.
PEAR STOCKS, 1-yr., fine, 5*s.* per 1000.
ABIES DOUGLASII, 10 to 12 inches, 16*s.* per 100; 140*s.* p. 1000.
PICEA NORDMANNIANA, 6 to 8 inches, 100*s.* per 1000.
PINUS INSIGNIS, pots, 3 inch, 50*s.* per 1000.
CEDARS, Red, 8 to 10 inches, 80*s.* per 1000.
CEDRUS DEODARA, 4 to 5 feet, fine, 18*s.* per dozen; 6 to 7 feet, 36*s.* per dozen.
ABIES ORIENTALIS, fine specimens, 4 to 5 feet, 70*s.* p. 100.
LIGUSTRUM OVALIFOLIUM, 10 to 15 inches, 18*s.* per 1000.

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NEW WHITE CARNATION, HARRIET TURNER, raised by the Advertisers, and we can with confidence recommend this as being one of the finest white Carnations ever sent out for cut flowers. Having grown it for four years entirely for cutting purposes, we have proved it to be very free flowering, and perfectly hardy. Established in pots, 50*s.* per 100. Cash with order to

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SEAKALE PLANTS, a quantity for Sale at 30*s.* per 1000. Cash with orders. Special offer for large buyers. J. SODEN, Whittlesey, Peterborough.

To the Trade.

H. AND F. SHARPE'S Spring CATALOGUE of home-grown Agricultural Seeds is now ready, and can be forwarded on application.

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